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International Cosmetic Ingredient Dictionary and Handbook

**Seventh Edition
1997**

Editors

John A. Wenninger
G. N. McEwen, Jr., Ph.D., J.D.

Volume 2

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The Cosmetic, Toiletry, and Fragrance Association
1101 17th Street, N.W., Suite 300
Washington, DC 20036-4702

Ascophyllum Nodosum Extract (Cont.)

cosmetic ingredient labeling in the European Union (EU). ••The labeling name in the EU will be, Ascophyllum Nodosum, when regulations for ingredient labeling under the 6th Amendment to the EC Cosmetics Directive go into effect.

Chemical Class: Biological Products

Function: Biological Additive

Trade Name Mixtures:

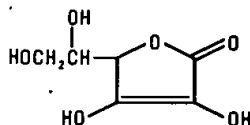
ACP 941 (Bottger)
Algea Esthe (Algea)
Extrait d'Ascophyllum MBE BG40 (Yves Rocher)
Jus D'algues Seaweed Juice (Isimer)
Permealgue (Isimer)
Pheofiltrat D'Ascophyllum Nodosum (Codif)
Phycostimulant ARL (Codif)
Sea-Weed Extract HS 2449 G (Graud)
Serum Plus (Isimer)

ASCORBIC ACID

CAS No. 50-81-7 (L-Form) **EINECS No.** 200-066-2

Empirical Formula:
 $C_6H_8O_6$

Definition: Ascorbic Acid is the organic compound that conforms to the formula:



Information Sources: ARG, AUS, BAN, BP, 3PC, BRA, 21CFR137.105, 21CFR137.155, 21CFR137.160, 21CFR137.165, 21CFR137.170, 21CFR137.175, 21CFR137.180, 21CFR137.185, 21CFR137.200, 21CFR137.205, 21CFR145.110, 21CFR145.115, 21CFR145.116, 21CFR145.135, 21CFR145.136, 21CFR145.170, 21CFR145.171, 21CFR146.113, 21CFR146.187, 21CFR150.141, 21CFR150.161, 21CFR155.200, 21CFR156.145, 21CFR161.175, 21CFR182.3013, 21CFR182.5013, 21CFR182.8013, 21CFR240.1044, CZE, DA, DDR, EP, FCC, FIN, ND, INN, ITA, JAN, JCLS, JSCI, MAR, MEX, MI-12(867), PF, PN, POR, ROM, SNPF, TSCA, JSAN, USD, USP XXIII, USSR, WHO, YUG

Chemical Classes: Heterocyclic Compounds; Polyols

Functions: Antioxidant; pH Adjuster

Reported Product Categories: Hair Dyes and Colors (All Types Requiring Caution Statements and Patch Tests); Shampoos (Non-coloring); Hair Preparations (Non-coloring); Misc.; Hair Conditioners; Powders (Dusting and Talcum, Excluding After-shave Talcs); Hair Sprays (Aerosol Mixtures); Tonics, Dressings, and Other Hair Grooming Aids; Moisturizing Preparations; Skin

Care Preparations, Misc.; Body and Hand Preparations (Excluding Shaving Preparations); Hair Tints

Technical Name:
Vitamin C

Trade Names:

Ascorbic Acid Fine Granular, No. 604565500 (Roche)
Ascorbic Acid Fine Powder, No. 604565200 (Roche)
Ascorbic Acid Fine Powder, No. 60456350 (Roche)
Ascorbic Acid Granular, No. 604565400 (Roche)
Ascorbic Acid Type S, No. 604566000 (Roche)
Ascorbic Acid Ultra-Fine Powder, No. 604565300 (Roche)
L(+)-Ascorbic Acid (Vitamin C) (Rona/EM Industries)
Uantox ASCA (Universal Preserv-A-Chem)

Trade Name Mixtures:

Acerola Dry Extract 15% Natural Vitamin C (Centroflora)
Amisil-ASC (Alban Muller)
Anti-Wrinkle Complex MU 3664 (Laboratoire MU)
C-S Complex (Lipo)
Extrapone Biopollin Special 2/032661 (Dragoco)
Extrapone Phytostimulin Special 2/033181 (same as 2/789440) (Dragoco)
Marine Plasma Extract (Brooks)
OxyneX K Liquid (Rona/EM Industries)
OxyneX L Liquid (Merck KGaA)

ASCORBIC ACID POLYPEPTIDE

Definition: Ascorbic Acid Polypeptide is a reaction product of ascorbic acid and hydrolyzed protein.

Chemical Classes: Heterocyclic Compounds; Protein Derivatives

Functions: Antioxidant; Skin-Conditioning Agent - Miscellaneous

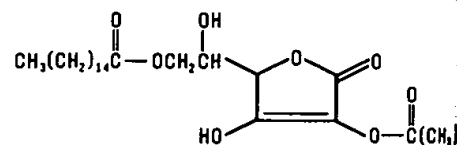
Trade Name:
Vitazyme C (Brooks)

ASCORBYL DIPALMITATE

CAS Number: 28474-90-0

Empirical Formula:
 $C_{38}H_{68}O_8$

Definition: Ascorbyl Dipalmitate is the diester of Ascorbic Acid (q.v.) and palmitic acid. It conforms generally to the formula:



Information Sources: JCLS, JSCI

Chemical Classes: Esters; Heterocyclic Compounds; Polyols

Function: Antioxidant

Technical Name:
L-Ascorbic Acid, Dihexadecanoate

Trade Name:
Nikkol CP (Nikko)

ASCORBYL METHYLSILANOL PECTINATE

Definition: Ascorbyl Methylsilanol Pectinate is an oligomeric methylsilanol derivative of Pectin (q.v.) which is further reacted with Ascorbic Acid (q.v.).

Chemical Classes: Gums, Hydrophilic Colloids and Derivatives; Heterocyclic Compounds; Polyols; Silicones and Silanes

Functions: Antioxidant; Viscosity Increasing Agent - Aqueous

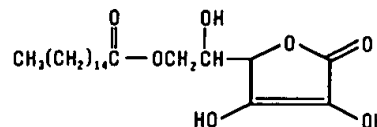
Trade Name:
Ascorbosilane C (Exsymol)

ASCORBYL PALMITATE

CAS No. 137-66-6 **EINECS No.** 205-305-4

Empirical Formula:
 $C_{22}H_{38}O_7$

Definition: Ascorbyl Palmitate is the ester of Ascorbic Acid (q.v.) and palmitic acid. It conforms generally to the formula:



Information Sources: 21CFR166.110, 21CFR182.3149, CTFA S, FCC, JCLS, JSCI, MAR, NF XVIII, TSCA, USAN

Chemical Classes: Esters; Heterocyclic Compounds; Polyols

Function: Antioxidant

Reported Product Categories: Lipsticks; Foundations; Eye Shadows; Blushers (All types); Face Powders; Moisturizing Preparations; Eye Makeup Preparations, Misc.; Paste Masks (Mud Packs); Makeup Preparations (Not eye); Misc.; Makeup Bases; Skin Care Preparations, Misc.; Body and Hand Preparations (Excluding Shaving Preparations)

The inclusion of any compound in the *Dictionary and Handbook* does not indicate that use of that substance as a cosmetic ingredient complies with the laws and regulations governing such use in the United States or any other country.

Ascorbyl

Burton Ge
and Deter
Excluding
Cream (Ac
Sprays (A
Fragrance
Dressings
Night Skin
Technical
L-Ascorb
Trade Nar
Ascorbyl
Grindox
Trade Nar
Antioxid
Brooks
Brooks
Brooks
Controx
Facteur
Horse Sp
Lipofact
Omega-6
Omega-6
OxyneX
OxyneX
OxyneX
OxyneX
OxyneX
Vitamin C
Labs.)
Vitaphyl

ASCORBIC

CAS No.
137-66-6
Empirical
C₆H₈O₆
Definition:
Ascorbic A
conforms

CH₂(CH

Informatic
JSCI
Chemical
Compound
Function:
Technical
L-Ascorb
L-Ascorb

ASIATIC
CAS Num

Internati

Palmitate (Cont.)

Gels, Creams, and Liquids; Bath Soaps
Detergents; Face and Neck Preparations
(Shaving Preparations); Shaving
(Aerosol, Brushless and Lather); Hair
(Aerosol Fixatives); Eyebrow Pencils;
Preparations, Misc.; Tonics,
and Other Hair Grooming Aids;
Skin Care Preparations; Eyeliners

Trade Name:

Ascorbic Acid, 6-Hexadecanoate

Names:

Ascorbyl Palmitate No. 604120000 (Roche)

Ascorbyl Palmitate (Danisco)

Name Mixtures:

Ascorbyl G-2 (Provital/Centerchem)

Ascorbyl ACE (Brooks)

Ascorbyl ACEBC (Brooks)

Ascorbyl VP (Grünau)

Ascorbyl Arl (Wackherr)

Ascorbyl Spinalcord Extract in oil (Paninkret)

Ascorbyl Vitentiel (Wackherr)

Ascorbyl Oil-10 (Roche)

Ascorbyl Oil-25 (Roche)

Ascorbyl 2004 (Merck KGaA)

Ascorbyl AP (Merck KGaA)

Ascorbyl K Liquid (Rona/EM Industries)

Ascorbyl LM (Merck KGaA)

Ascorbyl LM (Rona/EM Industries)

Ascorbyl C & E Liposomes (Collaborative)

Ascorbyl

Ascorbyl ACE (Wackherr)

ASCORBYL STEARATE

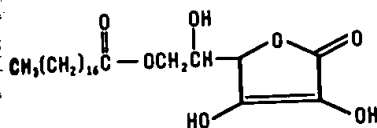
EINECS No.

200-66-8 246-944-9

Empirical Formula:

$C_{30}H_{48}O_7$

Definition: Ascorbyl Stearate is the ester of Ascorbic Acid (q.v.) and stearic acid. It conforms generally to the formula:



Information Sources: 21CFR166.110, JCLS,

Chemical Classes:

Esters; Heterocyclic

Compounds; Polyols

Function: Antioxidant

Technical Names:

L-Ascorbic Acid, Monoctadecanoate

L-Ascorbyl Stearate

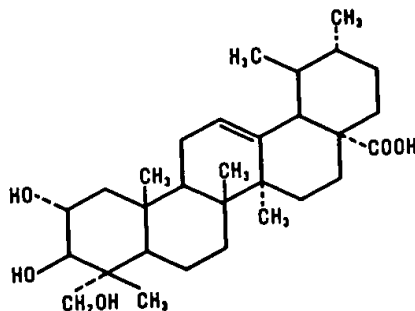
ASIATIC ACID

CAS Number: 464-92-6

Empirical Formula:

$C_{30}H_{48}O_5$

Definition: Asiatic Acid is the organic compound that conforms to the formula:



Chemical Classes: Carboxylic Acids; Sterols

Function: Skin-Conditioning Agent - Miscellaneous

Technical Name:

Urs-12en-28-oic Acid, 2,3,23-Trihydroxy-, (2 α , 3 β , 4 α)-

Trade Name:

Centasiatic (MMP)

ASIMINA TRILOBA

Definition: Asimina Triloba is the plant material derived from *Asimina triloba*. ••The labeling name in the European Union (EU) will be, Asimina Triloba, when regulations for ingredient labeling under the 6th Amendment to the EC Cosmetics Directive go into effect.

••INCI name(s) permitted for labeling in the US that may correspond to this EU labeling name would be one of the following as described in the appropriate monograph for each ingredient: Pawpaw (*Asimina Triloba*) Extract. ••For additional information regarding definitions, information sources, trade and technical names, functions, etc., for the ingredient(s) listed above, see the relevant INCI monograph.

Chemical Class: Biological Products

ASPARAGINE

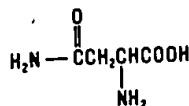
CAS No.

70-47-3 (L-Form)

Empirical Formula:

$C_4H_8N_2O_3$

Definition: Asparagine is the amino acid that conforms to the formula:



EINECS No.

200-735-9

ASPARAGOPSIS ARMATA

Definition: Asparagopsis Armata is the plant material derived from *Asparagopsis armata*.

••The labeling name in the European Union (EU) will be, Asparagopsis Armata, when regulations for ingredient labeling under the 6th Amendment to the EC Cosmetics Directive go into effect. ••INCI name(s) permitted for labeling in the US that may correspond to this EU labeling name would be one of the following as described in the appropriate monograph for each ingredient: Asparagopsis Armata Extract. ••For additional information regarding definitions, information sources, trade and technical names, functions, etc., for the ingredient(s) listed above, see the relevant INCI monograph.

Chemical Class: Biological Products

ASPARAGOPSIS ARMATA EXTRACT

Definition: Asparagopsis Armata Extract is an extract of the red algae, *Asparagopsis armata*.

••This INCI name may not be used for cosmetic ingredient labeling in the European Union (EU). ••The labeling name in the EU will be, Asparagopsis Armata, when regulations for ingredient labeling under the 6th Amendment to the EC Cosmetics Directive go into effect.

Chemical Class: Biological Products

Function: Biological Additive

Technical Name:

Extract of Asparagopsis Armata

Trade Name:

Phykosil (Exsymol)

ASPARAGUS OFFICINALIS

Definition: Asparagus Officinalis is the plant material derived from *Asparagus officinalis*.

••The labeling name in the European Union (EU) will be, Asparagus Officinalis, when regulations for ingredient labeling under the 6th Amendment to the EC Cosmetics Directive go into effect. ••INCI name(s) permitted for labeling in the US that may correspond to this EU labeling name would be one of the following as described in the appropriate monograph for each ingredient: Asparagus Officinalis Extract, or Asparagus Officinalis Root Extract. ••For additional information regarding

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Titanium Dioxide (Cont.)

Tioveil GPT (Tioxide)
 Tioveil IPM (Tioxide)
 Tioveil MEL (Tioxide)
 Tioveil MOTG (Tioxide)
 Tioveil OP (Tioxide)
 Tioveil TG (Tioxide)
 Tioveil TGOP (Tioxide)
 Ti-Sphere AB-15155A (Presperse)
 Titanium Dioxide AS (Cardre)
 Toshiki PFM-Pink 6055 (Nikko)
 Toshiki Super Mica A (Nikko)
 Toshiki Super Mica D (Nikko)
 Toshiki TiO2 AF-25-3 (Nikko)
 Toshiki TiO2 AS-61D (Nikko)
 Toshiki TiO2 ASF-25-3 (Nikko)
 Toshiki TWB-6033 (Nikko)
 TZ-Powder Type I (B) (US Cosmetics)
 Ultimica BH (Nihon Koken Kogyo)
 Ultimica GH (Nihon Koken Kogyo)
 Ultimica RH (Nihon Koken Kogyo)
 Ultimica SH (Nihon Koken Kogyo)
 Ultimica YH (Nihon Koken Kogyo)
 Ultrafine Titanium Dioxide AS (Cardre)
 UV-Titan M160 (Kemira Pigments OY)
 UV-Titan M212 (Kemira Pigments OY)
 UV-Titan M262 (Kemira Pigments OY)
 White Poly WR (Creations Couleurs)
 Zetesap 5165 (Zschimmer & Schwarz)
 Zetesap 813 A (Zschimmer & Schwarz)

TITANIUM HYDROXIDE

CAS No. EINECS No.
 20338-08-3 243-744-3

Empirical Formula:



Definition: Titanium Hydroxide is the inorganic compound that conforms to the formula:



Information Sources: MI-12(9609), TSCA

Chemical Class: Inorganics

Functions: Bulking Agent; Opacifying Agent

TITANIUM/TITANIUM DIOXIDE

Definition: Titanium/Titanium Dioxide is a composite of titanium and titanium dioxide.

Chemical Class: Inorganics

Functions: Colorant; Opacifying Agent

Technical Names:

Black Titanium Oxide
 Titanium Oxide, Black

Trade Name:

Tilack D (Ako Kasei)

TOBACCO (NICOTIANA TABACUM) EXTRACT

CAS No. EINECS No.
 84961-66-0 284-656-5

Definition: Tobacco (Nicotiana Tabacum) Extract is an extract of the leaves of the tobacco, *Nicotiana tabacum*. ••This INCI name has been proposed to the US FDA as an interim step in harmonizing botanical nomenclature with international conventions. ••See Regulatory Information in the Introduction for information on labeling name options available for this ingredient. ••The labeling name in the EU will be, *Nicotiana Tabacum*, when regulations for ingredient labeling under the 6th Amendment to the EC Cosmetics Directive go into effect.

Chemical Class: Biological Products

Function: Biological Additive

Technical Names:

Extract of *Nicotiana Tabacum* Leaf
 Extract of Tobacco Leaf
Nicotiana Tabacum Extract
 Tobacco Leaf Extract

Trade Name:

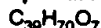
Flavex CO2-Extract Tobacco (type 4224.530)
 (Flavex)

Trade Name Mixtures:

Actiphyte of Tobacco BG50 (Active Organics)
 Actiphyte of Tobacco GL50 (Active Organics)
 Actiphyte of Tobacco Lipo S (Active Organics)
 Actiphyte of Tobacco PG50 (Active Organics)

TOCOPHERETH-5

Empirical Formula:



Definition: Tocophereth-5 is the polyethylene glycol ether of Tocopherol (q.v.) with an average ethoxylation value of 5.

Chemical Classes: Alkoxyated Alcohols; Heterocyclic Compounds

Functions: Antioxidant; Skin-Conditioning Agent - Miscellaneous

Technical Names:

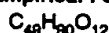
PEG-5 Tocopheryl Ether
 Polyethylene Glycol (5) Tocopheryl Ether
 Polyoxyethylene (5) Tocopheryl Ether

Trade Name:

Toconics-5 (Pacific)

TOCOPHERETH-10

Empirical Formula:



Tocopher

Definition: Tocophereth-10 is the polyethylene glycol ether of Tocopherol (q.v.) with an average ethoxylation value of 10.

Chemical Classes: Alkoxyated Alcohols; Heterocyclic Compounds

Functions: Antioxidant; Skin-Conditioning Agent - Miscellaneous

Technical Names:

PEG-10 Tocopheryl Ether
 Polyethylene Glycol 500 Tocopheryl Ether
 Polyoxyethylene (10) Tocopheryl Ether

Trade Name:

Toconics-10 (Pacific)

TOCOPHERETH-12

Definition: Tocophereth-12 is the polyethylene glycol ether of Tocopherol (q.v.) with an average ethoxylation value of 12.

Chemical Classes: Alkoxyated Alcohols; Heterocyclic Compounds

Functions: Antioxidant; Skin-Conditioning Agent - Miscellaneous

Technical Names:

PEG-12 Tocopheryl Ether
 Polyethylene Glycol 600 Tocopheryl Ether
 Polyoxyethylene (12) Tocopheryl Ether

Trade Name:

Toconics-12 (Pacific)

TOCOPHERETH-18

Definition: Tocophereth-18 is the polyethylene glycol ether of Tocopherol (q.v.) with an average ethoxylation value of 18.

Chemical Classes: Alkoxyated Alcohols; Heterocyclic Compounds

Functions: Antioxidant; Skin-Conditioning Agent - Miscellaneous

Technical Names:

PEG-18 Tocopheryl Ether
 Polyethylene Glycol (18) Tocopheryl Ether
 Polyoxyethylene (18) Tocopheryl Ether

Trade Name:

Toconics-18 (Pacific)

TOCOPHERETH-50

Definition: Tocophereth-50 is the polyethylene glycol ether of Tocopherol (q.v.) with an average ethoxylation value of 50.

The inclusion of any compound in the *Dictionary and Handbook* does not indicate that use of that substance as a cosmetic ingredient complies with the laws and regulations governing such use in the United States or any other country.

Tocopherol-50 (Cont.)

Chemical Classes: Alkoxyated Alcohols;
Polycyclic Compounds
Uses: Antioxidant; Skin-Conditioning
Miscellaneous

Chemical Names:

D-50 Tocopheryl Ether
Methylene Glycol (50) Tocopheryl Ether
Polyethylene Glycol (50) Tocopheryl Ether
Trade Name:
Tocopherol-50 (Pacific)

Preparations; Depilatories; Bath Oils, Tablets,
and Salts; Fragrance Preparations, Misc.;
Aftershave Lotions; Skin Fresheners; Eye
Lotions

Technical Names:

D-Alpha Tocopherol
3,4-Dihydro-2,5,7,8-Tetramethyl-2-(4,8,12-Trimethyltridecyl)-2H-1-Benzopyran-6-ol
2H-1-Benzopyran-6-ol, 3,4-Dihydro-2,5,7,8-Tetramethyl-2-(4, 8, 12-Trimethyltridecyl)-
Mixed Tocopherols
Natural Vitamin E
DL- α -Tocopherol
Vitamin E

Trade Names:

dl-alpha-Tocopherol (BASF)
component of Oxyxex LM (Merck KGaA)
Copherol F-1300 (Henkel)
Covi-ox T-50 (Henkel/Fine Chemicals)
Covi-ox T-70 (Henkel/Fine Chemicals)
Covi-ox T-30P (Henkel/Fine Chemicals)
Covipherol T-75 (Henkel/Fine Chemicals)
Covitol F-600 (Henkel/Fine Chemicals)
Covitol F-1000 (Henkel/Fine Chemicals)
Covitol F-350M (Henkel/Fine Chemicals)
Covitol 80/20M (Henkel/Fine Chemicals)
Eastman Vitamin E (Eastman Chemical)
Jeen Vitamin E (Jeen)
Plantazyme Phase II (Coletica/Bioetica, Inc.)
Tenox GT-1 (Eastman Chemical)
Tenox GT-2 (Eastman Chemical)
Tocopherol 80 (Nissan)
DL- α -Tocopherol (Rona/EM Industries)
Vitamin E 5-87 (Eastman Chemical)
Vitamin E No. 60525 (Roche)

Trade Name Mixtures:

Anti-Wrinkle Complex MU 3664 (Laboratoire MU)
Arnicaflower Oil PANAROM (Novarom)
Arnica Oil CLR (Kurt Richter)
ASC III (Rona/EM Industries)
ASC III (Art. No. 10154) (Merck KGaA)
Balm Mint Oil infus. (Novarom)
Biobranil Watersoluble 2/012600 (Dragoco)
Bio-Oil GLA-10 (Brooks)
Brookosome ACEBC (Brooks)
Calendula Oil CLR (Kurt Richter)
Calendula Oil MONAROM (Novarom)
Carrot Oil CLR (Kurt Richter)
Carrot Oil, Extra (Novarom)
Controx KS (Grünau)
Controx VP (Grünau)
Crodarom Calendula O (Croda, Inc.)
Crodarom Carrot O (Croda, Inc.)
Cutavit Richter (Kurt Richter)
Derma-Vitamincomplex, Oil Soluble (Novarom)
EFA-Glycerides (Brooks)
EFA-Plex (Brooks)
EFA-Plexsol (Brooks)
Eticerv (Coletica/Bioetica, Inc.)
Horse Spinalcord Extract in oil (Paninkret)

Hypericum Oil CLR (Kurt Richter)
Lipocermol (Serobiologiques)
Lipocermol-A (Vevy)
Melaclear (Sederma)
Omega-6 Oil-10 (Roche)
Omega-6 Oil-25 (Roche)
Oxyxex K Liquid (Rona/EM Industries)
Oxyxex L Liquid (Merck KGaA)
Oxyxex LM (Rona/EM Industries)
Solar Boost (Collaborative Labs.)
Soluvit Richter (Kurt Richter)
TEGO Deo HY 77 (Grillo-Werke)
Tocomix D (Jan Dekker)
Tocopherol oil (Novarom)
Tocopherol Oil CLR 0.4% Tocopherol (Kurt Richter)

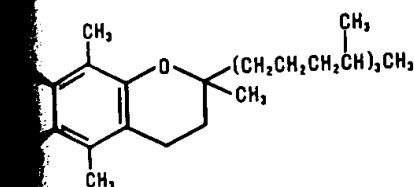
Toshiki SP-565-41 Red (Nikko)
Unipherol U-14 (Induchem)
Veghydra (Solabia)
Vitamin E 4-50 (Eastman Chemical)
Vitamin E 4-80 (Eastman Chemical)
Vitamin E 5-40 (Eastman Chemical)
Vitamin E 5-67 (Eastman Chemical)
Vitamin E 6-40 (Eastman Chemical)
Vitamin Extract AEFH' Water Soluble (Novarom)
Vitamin Extract AEF, Oil Soluble (Novarom)
Vitaminextract VC, Oil Soluble (Novarom)
Vitaminextract VC, Water Soluble (Novarom)
Vitamin F free acid (Novarom)
Vitaplant CLR oil-soluble N (Kurt Richter)
Vitasol, Vitamin-Horsechestnut-Complex (Novarom)
VYOX (Vevy)
Wheat Germ Oil PANAROM (Novarom)

TOCOPHEROL

No. **EINECS Nos.**
182-3890 (d-alpha) 200-412-2
182-3890 215-798-8
182-3890 233-466-0

Chemical Formula:

$C_{55}H_{104}O_2$
Definition: Tocopherol is the organic compound that conforms to the formula:



Information Sources: ARG, BRA,
182.3890, 21CFR182.5890,
182.8890, 21CFR184.1890, CTFA S,
ITA, JAN, JCIC, JCLS, JSQI, MAR,
10159), TSCA, USAN, USD, USP XXIII

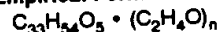
Chemical Class: Heterocyclic Compounds
Uses: Antioxidant; Skin-Conditioning
Miscellaneous; Skin-Conditioning
Occlusive

Product Categories: Lipsticks; Eye
Creams; Foundations; Moisturizing
Lotions; Blushers (All types); Skin Care
Preparations, Misc.; Face Powders; Body and
Preparations (Excluding Shaving
Preparations); Hair Conditioners; Makeup
Preparations (Not eye), Misc.; Face and Neck
Preparations (Excluding Shaving Preparations);
Makeup Preparations, Misc.; Night Skin
Preparations; Shampoos (Non-coloring);
Masks (Mud Packs); Tonics, Dressings,
After Hair Grooming Aids; Cleansing
Preparations (Cold Creams, Cleansing Lotions,
and Pads); Makeup Bases; Hair
Preparations (Non-coloring), Misc.; Suntan
Creams, and Liquids; Mascara; Bath
and Detergents; Hair Coloring
Preparations, Misc.; Hair Sprays (Aerosol
Preparations); Eyebrow Pencils; Eyeliners; Shaving
Preparations (Aerosol, Brushless and Lather); Suntan
Preparations, Misc.; Powders (Dusting and
Excluding Aftershave Talcs); Personal
Care Products, Misc.; Indoor Tanning

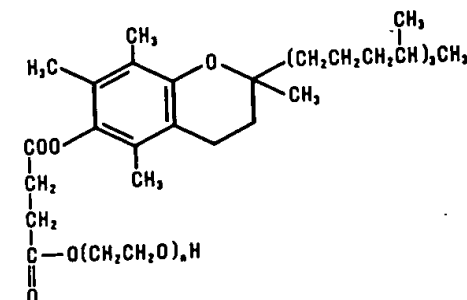
TOCOPHERSOLAN

CAS Number: 30999-06-5

Empirical Formula:



Definition: Tocophersolan is the organic compound that conforms to the formula:



where n has an average value of 22.

Information Sources: INN, USAN

Chemical Classes: Alkoxyated Carboxylic
Acids; Esters; Heterocyclic Compounds

The inclusion of any compound in the Dictionary and Handbook does not indicate that use of that substance as a cosmetic ingredient complies with the laws and regulations governing such use in the United States or any other country.

Tocophersolan (Cont.)

Function: Antioxidant

Technical Name:

α -Tocopheryl Polyethylene Glycol 1000 Succinate

Trade Name:

Vitamin E TPGS (Eastman Chemical)

TOCOPHERYL ACETATE

CAS No. EINECS No.
7695-91-2 231-710-0

Empirical Formula:

$C_{31}H_{52}O_3$

Definition: Tocopheryl Acetate is the ester of Tocopherol (q.v.) and acetic acid.

Information Sources: AUS, 21CFR182.5892, 21CFR182.5915, 21CFR182.8892, CZE, DA, DDR, EGY, FCC, HUN, ITA, JAN, JCIC, JCLS, JSOI, MI-12(10160), PN, TSCA, USAN, USD, USP XXIII

Chemical Classes: Esters; Heterocyclic Compounds

Functions: Antioxidant; Skin-Conditioning Agent - Miscellaneous

Reported Product Categories: Moisturizing Preparations; Bath Soaps and Detergents; Body and Hand Preparations (Excluding Shaving Preparations); Hair Sprays (Aerosol Fixatives); Skin Care Preparations, Misc.; Eye Makeup Preparations, Misc.; Aftershave Lotions; Indoor Tanning Preparations; Fragrance Preparations, Misc.; Nail Polish and Enamels; Manicuring Preparations, Misc.; Tonics, Dressings, and Other Hair Grooming Aids; Face Powders; Powders (Dusting and Talcum, Excluding Aftershave Talcs); Mascara; Basecoats and Undercoats; Night Skin Care Preparations; Suntan Preparations, Misc.; Makeup Preparations (Not eye), Misc.; Cleansing Products (Cold Creams, Cleansing Lotions, Liquids and Pads); Eyeliners; Lipsticks; Foundations; Personal Cleanliness Products, Misc.; Hair Conditioners; Makeup Bases; Bath Oils, Tablets, and Salts; Permanent Waves; Shampoos (Non-coloring); Face and Neck Preparations (Excluding Shaving Preparations); Bubble Baths; Cuticle Softeners; Skin Fresheners; Shaving Cream (Aerosol, Brushless and Lather); Colognes and Toilet Waters; Blushers (All types); Suntan Gels, Creams, and Liquids; Hair Preparations (Non-coloring), Misc.; Paste Masks (Mud Packs); Shaving Preparations, Misc.; Eye Shadows; Bath Preparations, Misc.; Eye Lotions; Hair Rinses (Non-coloring); Baby Lotions, Oils, Powders and Creams

Technical Names:

D-Alpha Tocopheryl Acetate

DL-Alpha Tocopheryl Acetate

3,4-Dihydro-2,5,7,8-Tetramethyl-2-(4,8,12-Trimethyltridecyl)-2H-Benzopyran-6-ol, Acetate
2H-1-Benzopyran-6-ol, 3,4-Dihydro-2,5,7,8-Tetramethyl-2-(4,8,12-Trimethyltridecyl)-, Acetate

D- α -Tocopheryl Acetate
DL- α -Tocopheryl Acetate
Vitamin E Acetate

Trade Names:

Copherol 1250 (Henkel)
Copherol 1250 (Henkel/COSPHA)
Covitol 1100 (Henkel/Fine Chemicals)
Covitol 1360 (Henkel/Fine Chemicals)
Eastman Vitamin E Acetate (Eastman Chemical)
DL- α -Tocopherol Acetate (Rona/EM Industries)
Tri-K Vitamin E Acetate, USP (Tri-K)
Univit-E Acetate (Universal Preserv-A-Chem)
Vitamin E 6-100 (Eastman Chemical)
Vitamin E 700 (Eastman Chemical)
Vitamin E Acetate (BASF)
Vitamin E Acetate (Protameen)
Vitamin E Acetate-C (BASF)
Vitamin E Acetate, Cosmetic Grade, No. 60574 (Roche)
Vitamin E Acetate USP, FCC No. 60526 (Roche)

Trade Name Mixtures:

AFR LS (Serobiologiques)
A.F.R./Veg. (Serobiologiques)
Antioxidant G-2 (Provital/Centerchem)
Brookosome ACE (Brooks)
Brookosome ACEBC Concentrate (Brooks)
Brookosome E (Brooks)
Brookosome EFA (Brooks)
Brookosome ELL (Brooks)
Crodasome A/E (Croda, Inc.)
Crodasome UV-A/B (Croda, Inc.)
C-S Complex (Lipo)
Dermasome-E (ChemMark)
Destressine 2000 (Sederma)
Dexol A (Collaborative Labs.)
Dragovit F 2/927720 (Dragoco)
Elesponge OLEO-AFR (Serobiologiques)
Elesponge Vitamine E (Serobiologiques)
Epiderm-Complex O (Cosmetochem)
Facteur Ari (Wackherr)
Firming Liposomes (Collaborative Labs.)
Lanastime (Lanatech)
L.C.R.E. (Kolmar)
Lipodermol Veg (Serobiologiques)
Lipofacteur Vitentiel (Wackherr)
Maysome EA (Maybrook)
Micasomes AE (Collaborative Labs.)
Micasomes DM (Collaborative Labs.)
Microderm AE (Zehentmayer)
Moisturizing Liposomes (Collaborative Labs.)
Nanocos E-72 (Induchem)
Nikkol Aquasome EC-5 (Nikko)
Nikkol Aquasome VE (Nikko)

Tocopheryl Linoleate/Oleate

Oleo-AFR (Serobiologiques)

Questamix H (Quest)
Rovisome ACE (Rovi)
Rovisome CE (Rovi)
Sunscreens Liposomes (Collaborative Labs.)
Ultraspheres-5001 (Lipoid)
Ultraspheres-5012 (Lipoid)
Ultraspheres-5014 (Lipoid)
Ultraspheres-5411 (Lipoid)
Viatmin E 6-81 (Eastman Chemical)
Vitamin A & E Liposomes (Collaborative Labs.)
Vitamin C & E Liposomes (Collaborative Labs.)
Vitamin E Acetate Lipomicron (Sederma)
Vitaphyle ACE (Wackherr)

TOCOPHERYL LINOLEATE

CAS Number: 36148-84-2

Empirical Formula:

$C_{47}H_{80}O_3$

Definition: Tocopheryl Linoleate is the ester of Tocopherol (q.v.) and Linoleic Acid (q.v.).

Information Sources: JCIC, JCLS, JSOI

Chemical Classes: Esters; Heterocyclic Compounds

Functions: Antioxidant; Skin-Conditioning Agent - Miscellaneous

Reported Product Categories: Eye Shade Lipsticks; Face Powders; Moisturizing Preparations; Blushers (All types); Foundations; Skin Care Preparations, Misc.; Face and Neck Preparations (Excluding Shaving Preparations); Suntan Preparations, Misc.; Body and Hand Preparations (Excluding Shaving Preparations); Makeup Bases; Mascara; Eye Makeup Preparations, Misc.; Night Skin Care Preparations; Manicuring Preparations, Misc.; Nail Polish and Enamels; Makeup Preparations (Not eye), Misc.

Technical Names:

D-Alpha Tocopheryl Linoleate
DL-Alpha Tocopheryl Linoleate
9,12-Octadecadienoic Acid, 3,4-Dihydro-7,8-Tetramethyl-2-(4,8,12-Trimethyltridecyl)-2H-1-Benzopyran-6-yl Ester
DL- α -Tocopheryl Linoleate
Vitamin E Linoleate

Trade Names:

Linoleate De Tocopherol (Prod'Hyg)
Tri-K Vitamin E Linoleate (Tri-K)
Vitamin E Linoleate (Seltzer)
Vienna (Ennagram)

TOCOPHERYL LINOLEATE/OLEATE

Definition: Tocopheryl Linoleate/Oleate is the ester of Tocopherol (q.v.) and a mixture of Linoleic Acid (q.v.) and Oleic Acid (q.v.).

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Tocopheryl Linoleate/Oleate (Cont.)**Information Sources:** JCIC, JCLS**Chemical Classes:** Esters; Heterocyclic compounds**Functions:** Antioxidant; Skin-Conditioning Agent - Miscellaneous**Technical Name:** **α -Tocopheryl Linoleate/Oleate****TOCOPHERYL NICOTINATE****CAS No.** **EINECS No.**

75-75-8

257-501-4

Empirical Formula: $C_{28}H_{53}NO_3$ **Definition:** Tocopheryl Nicotinate is the ester of tocopherol (q.v.) and nicotinic acid.**Information Sources:** JAN, JCLS, JSCI, JSQI**Chemical Classes:** Esters; Heterocyclic compounds**Functions:** Antioxidant; Skin-Conditioning Agent - Miscellaneous**Technical Names:** **α -Tocopheryl Nicotinate** **α -Tocopheryl Nicotinate****Pyridinecarboxylic Acid, 3,4-Dihydro-2,5,7,****8-Tetramethyl-2-(4,8,12-Trimethyltridecyl)-****3H-1-Benzopyran-6-yl Ester** **α -Tocopheryl Nicotinate****Vitamin E Nicotinate****Trade Name:****Vitamin E Nicotinate C (BASF)****TOCOPHERYL SUCCINATE****CAS No.** **EINECS No.**

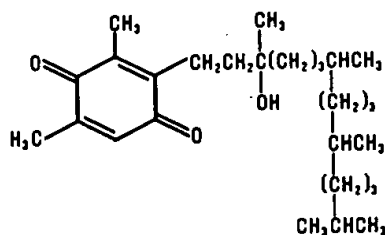
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224-403-8

Empirical Formula: $C_{35}H_{54}O_5$ **Definition:** Tocopheryl Succinate is the ester of tocopherol (q.v.) and succinic acid.**Information Sources:** FCC, JAN, MI-11 (9424), FDA, USAN, USD, USP XXIII**Chemical Classes:** Esters; Heterocyclic compounds**Function:** Antioxidant**Technical Names:** **α -Tocopheryl Succinate** **α -Tocopheryl Succinate****Succinic Acid, Mono[3,4-Dihydro-2,5,7,8-****8-Tetramethyl-2-(4,8,12-Trimethyltridecyl)-****3H-1-Benzopyran-6-yl] Ester****Vitamin E Succinate****Trade Names:****Covitol 1185 (Henkel/Fine Chemicals)****Covitol 1210 (Henkel/Fine Chemicals)****Eastman Vitamin E Succinate (Eastman Chemical)****Vitamin E Succinate (Eastman Chemical)****TOCOQUINONE****CAS No.** **EINECS No.**

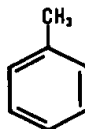
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231-450-8

Empirical Formula: $C_{29}H_{50}O_3$ **Definition:** Tocoquinone is the product obtained by the oxidation of α -tocopherol. It conforms to the formula:**Chemical Class:** Ketones**Functions:** Antioxidant; Skin-Conditioning Agent - Miscellaneous**Technical Name:****2-(3-Hydroxy-3,7,11,15-****Tetramethylhexadecyl)-3,5,6-Trimethyl-** **ψ -Benzoquinone****Trade Name:****alpha-Tocopherylquinone S (Coletica/Bioetica, Inc.)****TOLUENE****CAS No.** **EINECS No.**

108-88-3

203-625-9

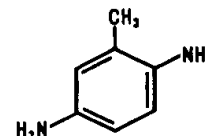
Empirical Formula: C_7H_8 **Definition:** Toluene is the aromatic compound that conforms to the formula:

Information Sources: 21CFR175.105, 21CFR175.320, 21CFR176.180, 21CFR177.1010, 21CFR177.1200, 21CFR177.1440, 21CFR177.1580, 21CFR177.1650, 21CFR177.2460, 21CFR178.3010, 27CFR21.131, CIR: JACT-6(1)1987, CTFA D, JCLS, JSCI, MAR, MI-12(9667), TSCA

Chemical Class: Hydrocarbons**Function:** Solvent**Reported Product Categories:** Basecoats and Undercoats; Nail Polish and Enamels; Manicuring Preparations, Misc.**Technical Names:****Benzene, Methyl-****Methylbenzene****Toluol****Trade Name Mixtures:****BIJU BXD (Engelhard)****BIJU Ultra UXD (Engelhard)****TOLUENE-2,5-DIAMINE****CAS No.** **EINECS No.**

95-70-5

202-442-1

Empirical Formula: $C_7H_{10}N_2$ **Definition:** Toluene-2,5-Diamine is the substituted aromatic amine that conforms to the formula:

• US laws and regulations prohibit any cosmetic product intended for sale in the United States from containing a colorant that has not been previously approved by the US FDA, and that does not meet applicable standards and specifications as found in 21 CFR 73 & 74. (NOTE: Each batch of an approved synthetic organic colorant must be certified by the US FDA as meeting these standards and specifications.) An exception to this prohibition exists for "coal tar" colorants used in hair dye products which also meet other specific regulatory requirements. See Regulatory Information in the introduction.

Information Sources: CI 76042, CIR:**JACT-11(4)1992, EEC(III/1-9), MAR, TSCA****Chemical Classes:** Amines; Color Additives - Hair**Function:** Hair Colorant**Reported Product Category:** Hair Dyes and Colors (All Types Requiring Caution Statements and Patch Tests)**Technical Names:****1,4-Benzenediamine, 2-Methyl-****2-Methyl-1,4-Benzenediamine****2,5-Toluenediamine****p-Toluenediamine**

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